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Set-up for a Netgear DG834G (802.11b & g) ADSL Router with the Adpro FastTrace

This is a step-by-step guide on the set-up for a Netgear DG834G Router (Fig. 1) for use with a remote an Adpro FastTrace remote monitoring CCTV system.



Fig1

Before you can proceed further with this guide you must first Have your static IP address details including your login username and password from your Internet service provider.

The set-up has been tested for use with an Adpro FastTrace, but the instructions are generic, applying equally to other Adpro devices such as the FastVu and FastTX. You will require some basic networking knowledge and you will need a PC with a LAN connection and two Cat5 patch lead.

This setup will use the following IP addressing, Router as 192.168.0.1, Adpro as 192.168.0.2 and the onsite PC as 192.168.0.10 with DHCP starting from 192.168.0.30

SET-UP Guidelines for the DG843G 802.11b ADSL Router

1. Refer to Fig.2 below, and connect the Netgear Router to your PC/laptop and the FastTrace via Cat5 patch leads (Not Crossover) to any of the RJ45 ports on the back of the Router. Ensure that all DSL micro-filters have been fitted to the BT line main socket and any active BT extension sockets to prevent interference.



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2. Setup your PC'S LAN connection to the bellow settings. Start->Control Panel->Network Connections->Local Area Connection->Properties->Internet Protocol (TCP/IP)

Internet Protocol (TCP/IP) Pro	perties 🛛 🛛 🔀
General	
You can get IP settings assigned au this capability. Otherwise, you need the appropriate IP settings.	utomatically if your network supports to ask your network administrator for
Obtain an IP address automati	cally
• Use the following IP address:	
IP address:	192.168.0.10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address au	Itomatically
• Use the following DNS server	addresses:
Preferred DNS server:	192.168.0 . 1
Alternate DNS server:	
	Advanced
	OK Cancel

3. Click Ok (Note Windows 2000 may require a reboot).

4. Using Internet Explorer login to your routers main screen. Internet Explorer->http://192.168.0.1->admin->password

C NETGEAR Router - W	indows Internet Explorer			(⊴⊤₽₽₽).₽
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Google G-	🔽 Go 🚸 🦪 🌍 💕 🔫	Bookmarks - PageRank - Popups okay	Check 🗸	🐴 AutoLink 👻 🔚 AutoFill 🔒 Send to 🗸 🥒 🔘 Settings
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METGEAR RO	puter			🟠 🔹 🔝 👘 🖶 🔹 🔂 Page 🔹 🍈 Tools 🔹
N S	ettings	OSL Firewall Router DG834G		
Setup Wizard	Router Status		^	Router Status Help
Setup Basic Settings ADSL Settings	Account Name Firmware Version	V3.01.25		You can use the <i>Router Status</i> page to check the current settings and statistics for your Router. This page shows you the current settings. If something needs to be changed, you'll have to change it on the relevant page.
Wireless Settings Content Filtering	ADSL Port MAC Address	00:0f;b5:15:3b:17		Account Name: This is the Account Name that you entered in the Setup Wizard or Basic Settings.
 Block Sites Security Service 	Network Type IP Subnet Mask Gateway IP Address	PPPoA 255.255.255.255 212.74.111.240		Firmware Version: This is the current software the Router is using. This will change if you upgrade your Router.
 Parental Control Firewall Rules 	Domain Name Server	80.225.255.50 80.225.255.58	_	ADSL Port. These are the current settings that you set in the Setup Wizard or Basic Settings pages.
 Services Schedule E-mail 	LAN Port MAC Address IP Address DHCP	00:0f:b5:15:3b:16 192.168. On		 MAC Address - the physical address of the DG834, as seen from the internet. IP Address - current internet IP address. If assigned dynamically, and no internet connection.
Router Status Attached Devices	IP Subnet Mask Modem	255.255.255.0	-	exists, this will be blank or 0.0.0.0 • Network Type - indicates either <i>Client</i> (IP address is obtained dynamically) or <i>None</i> .
Backup Settings Set Password	ADSL Firmware Version Modem Status	4.01.02.00 Connected		IP Subnet Mask - the subnet mask associated with the Internet IP address Osterum IP Address, the Categories and a

5. Proceed to the Setup Wizard top left of the screen. UK->English->Yes->Next

6. Enter the relevant information from you internet service provider. Internet Connection Login->Yes->Account Name->Password->Static I.P->Subnet Mask->Gateway->DNS Servers

C NETGEAR Router - Wir	ndows Internet Explorer	• • • • • • • • • • • • • • • • • • •
GO • [Google
Google G-	🔽 Go 🗄 🚳 🌑 🎒 👻 🚼 🗸 Bookmarks 🗸 PageRank 🗸 🛃 Popups okay 👫 Check	👻 🔦 AutoLink 👻 🔚 AutoFill 🍙 Send to 🗸 🥒 Settings
Links 🙋 Customize Links 🥥	RealPlayer	
😭 🕸 🏈 NETGEAR Rout	ter	🟠 👻 🔝 👘 👘 📴 Page 👻 🎯 Tools 🗸
NE S	TGEAR Wireless ADSL Firewall Router DG834G	
• Setup Wizard	Basic Settings	Help
Setup Basic Settings ADSL Settings Wireless Settings	Does Your Internet Connection Require A Login? Yes No 	The DG834 Settings pages allow you to configure, upgrade and check the status of your NETGEAR Router. Click an item in the leftmost column. The current settings or information for that area appear in the center column.
Content Filtering Logs Block Sites Security Service	Account Name (If Required)	Helpful information related to the selected Settings page appears in this column. If you are using internet Explorer, you may click an item in the center column to jump directly to the related help section; otherwise, scroll down until you reach it
 Parental Control Firewall Rules Services 	Internet IP Address O Get Dynamically From ISP O Get Dynamically From ISP	Basic Settings Help
 Schedule E-mail 	IP Address	Note: If you are setting up the Router for the first time, the default settings may work for you with no changes.
Maintenance Router Status	Gateway IP Address	Does Your Internet Connection Require A Login? Select this option based on the type of account you have
Attached Devices Backup Settings	Use IP Over ATM (IPoA) IP Address	with your ISP. If you need to enter login information every time you connect to the Internet or you have a PPPoE account with your ISP, select Yes . Otherwise, select No .
Done	ID Cubeat Maak	🚱 Internet 🔍 100% 👻

7. Providing you have entered in correct details you should have a valid connection to the internet, check your connection using the status screen. Maintenance->Router Status->scroll down->Connection Status

Connection Status	
Connection Time	00:22:41
Connecting to Server	Connected
Negotiation	Success
Authentication	Success
Getting IP Addresses	
Getting Network Mask	255.255.255.255
Connect	Disconnect
Clos	e Window

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8. Proceed to Wireless Settings, it is strongly recommended to turn off the wireless access point if it is not required. If the customer requires this feature enabled then you must select a security option like WEP 128bit or WPA and enter an encryption key of your choice.



9. Proceed to LAN IP Setup and enabled the DHCP Server and set the starting IP address as 192.168.0.30 and click apply.

LAN IP Setup		
LAN TCP/IP Setup		
IP Address	192	.168 .0 .1
IP Subnet Mask	255	.255 .255 .0
RIP Direction		None 💌
RIP Version		RIP-1 💌
Use Router as DHCP Server Starting IP Address Ending IP Address	192 192	.168 .0 .30 .168 .0 .254
Address Reservation		
# IP Address	Device Name	MAC Address
	Add Edit Delete	
	Apply Cancel	

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10.Proceed to Services, for the Adpro FastTrace to work behind the NAT firewall we need to create two additional rules using ports 15000 – 15007 TCP and 15000 – 15200 UDP follow the next two screen shots.

AdproTCP->TCP->15000->15007->Apply



AdproUDP->UDP->15000->15200->Apply



11.Once both rules are added they should be shown within the Service Table as below.

ervice Table				
	#	Service Type	Ports	
0	1			
0	2			
•	3	The second s		
0	4	AdproTCP (TCP)	15000 - 15007	
0	5	AdproUDP (UDP)	15000 - 15200	

Add Custom Service Edit Service Delete Service

12.Now proceed to the Firewall Section.

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13.Now you need to add two new Inbound Service for the new Adpro Services we have previously created.

Inbound Services->Add->AdproTCP(TCP:15000,15007)->Always->192.168.0.2->Any->Always->Apply

Service	AdproTCP(TCP:15000,15007)	*
Action	ALLOW always	~
Send to LAN Server	192 .168 .0 .2	
WAN Users	Any	~
	start:	
	finish:	
Log	Always	~

Inbound Services->Add->AdproUDP(UDP:15000,15200)->Always->192.168.0.2->Any->Always->Apply

Inbound Services	1¢
Service	AdproUDP(UDP:15000,15200)
Action	ALLOW always
Send to LAN Server	192 .168 .0 .2
WAN Users	Any
	start:
	finish:
Log	Always
	Apply Cancel



14. You should now have two Inbound Services identical to the below table.

Apply the settings and proceed to the Remote Management.

Apply->Scroll Down->Remote Management

	na servi	ces						
	#	Enable	Service Nam	e Action		LAN Users	WAN Servers	Log
	Default	Yes	Any	ALLOW alw	ays	Any	Any	Never
bound	I Service	S	Saprice Name			Sonior ID addroso	MAN HOUSE	Log
~			AdaraTCD	ALLOW always	LAN	10216902	Any	Aburauro
0	-		Adprotee	ALLOW always		192.168.0.2	Any	Always
0	2		AdproUDP	ALLOW always		192.168.0.2	Any	Always
	Default	Yes	Any	BLOCK always		Any	Any	Never

15. Turn on the Remote Management; this will enable you to administer the router remotely, once completed proceed to the Set Password. Turn on Remote Management->Everyone->8080->Apply

Turn Remote Management On		
Remote Management Address: http://YourStaticlPAddress:8080		
Allow Remote Access By:		
Only This Computer:	-	· ·
O IP Address Range :	From .].[].[_
	то]
Severyone		
Port Number:		8080

To connect to your router from a remote site load your web browser and type the following

http://YourStaticIPAddress:8080

You will be prompted for your username and password.

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16.It is recommended for you to change the default password especially if you have enabled the Remote Management so unauthorised users can't change any settings.

Old Password->New Password->Repeat New Password->Apply

Set Password

Old Password	
New Password	
Repeat New Password	
Administrator login times out after idle for 5 minutes.	
Apply Cancel	

TIP

Write the new password underneath the router so your colleagues can access the router in your absence.

- 17. You can now Logout of your router via the Logout button located at the bottom of the screen.
- 18. You will now need to Setup your Adpro FastTrace to do this we need to temporarily change the PC'S LAN connection to the bellow settings. Start->Control Panel->Network Connections->Local Area Connection->Properties->Internet Protocol (TCP/IP)

You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	automatically if your network supports ed to ask your network administrator fo
Obtain an IP address autom	atically
Subsethe following IP addres	s:
IP address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 1 . 1
Obtain DNS server address	automatically
Subset the following DNS serv	er addresses:
Preferred DNS server:	192 . 168 . 1 . 1
Alternate DNS server:	· · ·
	Advanced

19. Click Ok (Note Windows 2000 may require a reboot).

20. You Will now need to install the Video Central Lite software onto the customers PC you must temporarily allow the system to accept incoming alarms.

2 2 3 9	Welcome to the Setup Wizard
	This wizard will guide you through the installation.
	To continue, click Next.
2 1 /	
	ADPRO ® Video Central Lite
	Version 10.01.00 Build 0006

21.Select Yes to receive alarms.

<u>Note</u>

Once the Adpro FastTrace has been fully setup you must uninstall the software then reinstall and select No to receive incoming alarms, if this is not and the customer leaves the software running whilst the system is set no alarms will be sent to the CCTV monitoring centre. To check if this has been done go to database administration and select your site you should only have an observer password available.



22. Tick the Network Adaptor under Network Devices.

Nominate which communication located transmitters.	devices to use when connecting to remotely
Select 1 device.	
Networking Devices:	
Vetwork Adaptor	
Telephony Devices:	
If an installed device is not panel.	displayed above, check it's configuration in control

23.Accept the warning message about the required dongle as this is not required.

Video Central Lite : Dongle Required		
?	Video Central detected the Lite dongle is not attached to your PC. Video Central Lite will not answer any incoming calls until the dongle is attached to your PC. Operation in this mode is not suitable for alarm verification.	
	Video Central Lite can still initiate calls to transmitters.	
	Do you accept this condition of operation?	
	Yes No	

24.Once the software has fully loaded proceed to Database and then select Administration then Configure Sites, you should have the same as the below setup. Ensure that your communications has been setup for network and is set as the default connection.

te Events SiteP	ulse Notification Contact Location Images Fas
Site Id FASTRACE	Name FastTrace default site
С	MS Password FT2222
Tra	ansmitter Type FastTrace/FastTx
Save au	dio/video data to database
Communications	
PSTN Async ISDN 64 Async ISDN 128	Default 🔽
Network	IP Address 192.168.1.1
	OK Com

25.Click Exit and click on the connect icon top right select your default site and click Ok, once connected proceed to Connection and select the Installer Menu.



26. Change the Site ID and relevant passwords as instructed by your CCTV monitoring centre.

Category			
Jategory Jategory Site Details Date/Time Settings Licensing Communications Connected Equipment Connected Equipment Connected Equipment Connected Equipment Control Dutputs Autio Arming/Disaming Derational Behaviour Control Behaviour Control al Behaviour Contr	Site Details Site ID Observer P CMS Passv Version: 2. Copyright De Version: 2.	vord etails 03.00 Build 0007 Copyright © 2006 by Vision Fire an	d Security
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27.Proceed to Communications and select the Call List, enter the provided IP addresses of your CCTV monitoring station then click Ok.

Connection Attempts	
4	
Connection Separation (seconds)	
5	
Call List	
	Add to list
	Remove from list

28.Proceed to the Ethernet Settings and change the IP address to 192.168.0.2, keep the Subnet Mask the same 255.255.255.0 and change the Default Gateway to 192.168.0.1 and click Ok.

thernet Settings		>
IP Address for this unit		
<mark>192</mark> . 168		
Subnet Mask		
255 . 255 . 255 . 0		
Default Gateway		
192 . 168		
Video Data Rate (bits/sec)		
FULL		•
Inore	OK	 Cancel

29. Save the settings to the FastTrace, the software will then be disconnected, close Video Central Lite.

30.Setup your PC'S LAN connection back to the bellow settings. Start->Control Panel->Network Connections->Local Area Connection->Properties->Internet Protocol (TCP/IP)

nternet Protocol (TCP/IP) Pr	operties 🛛 🛛 🛛
General	
You can get IP settings assigned a this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network supports d to ask your network administrator for
Obtain an IP address automa	atically
• Use the following IP address	
IP address:	192.168.0.10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address a	automatically
 Use the following DNS serve 	r addresses:
Preferred DNS server:	192.168.0 . 1
Alternate DNS server:	
	Advanced
	OK Cancel

31.Launch Video Central Lite, Once the software has fully loaded proceed to Database and then select Administration then Configure Sites, you now need to change the settings for your site. Change the default IP address to 192.168.0.2 and change the Site ID and CMS password to the same as you entered into the FastTrace.

Site configuration	
Site Events SitePul	se Notification Contact Location Images Fat
Site Id YOUR ID	Name YOUR SITE NAME
СМ	S Password CMD PASS
Tran	smitter Type Fast Trace/Fast Tx
Save audi	o/video data to database
Communications PSTN Async ISDN 64 Async ISDN 128	Default 🔽
Network	IP Address 192.168.0.2
	OK Cancel

32. You can now connect to your FastTrace and continue to commission the system, once you have completed you must uninstall Video Central Lite from the customers PC and reinstall but selecting No to receive alarms as mentioned in paragraph 21.

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